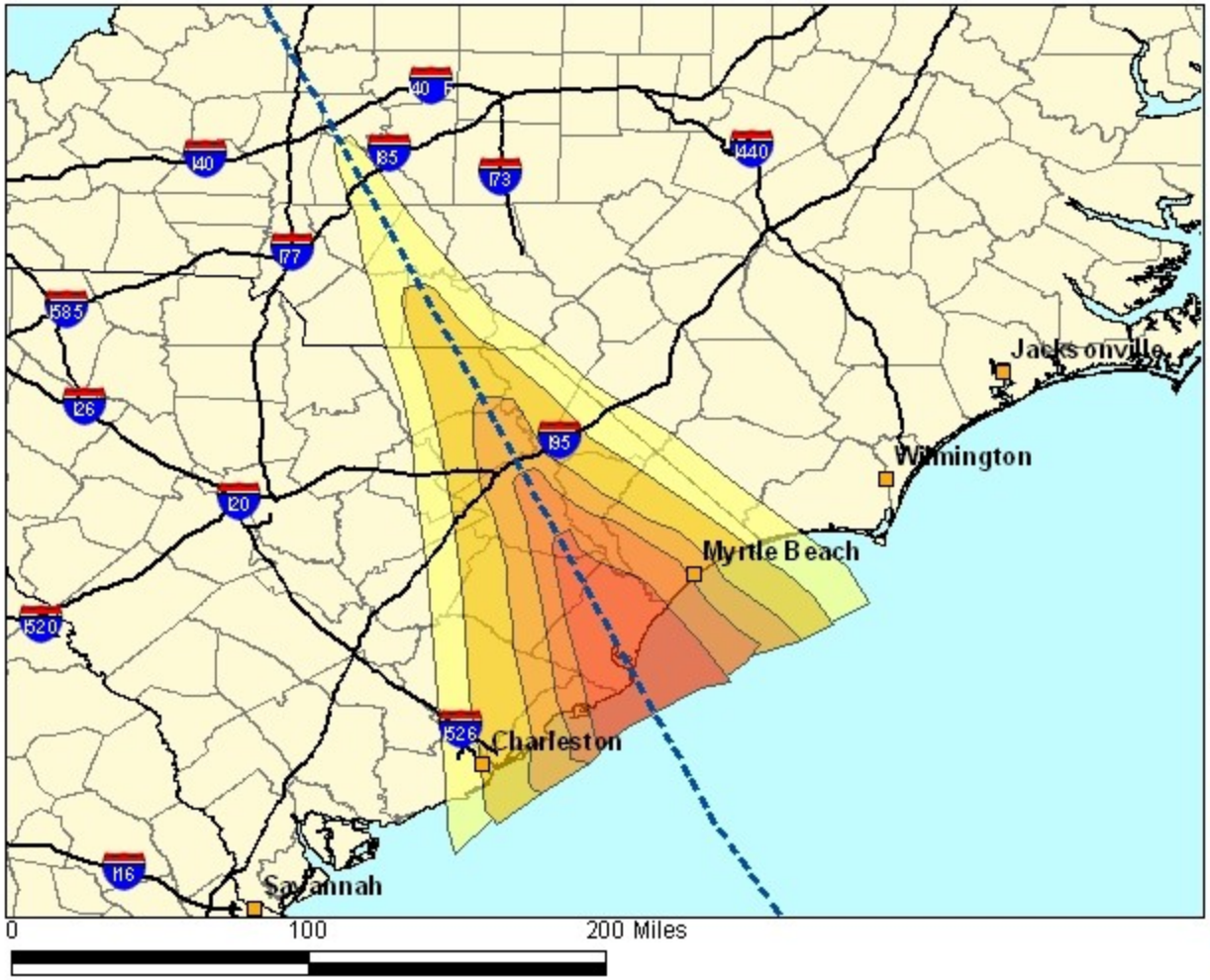
US Army Corps of Engineers

Hurricane Exercise Projected Damage Areas

Landfall Expected In About **24** Hours

For Official Use Only!

Post Landfall Projected Damage Areas



This model is based on a Category 4 storm making landfall Georgetown, SC.

Forecast Track
Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 4 storm making landfall Georgetown, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

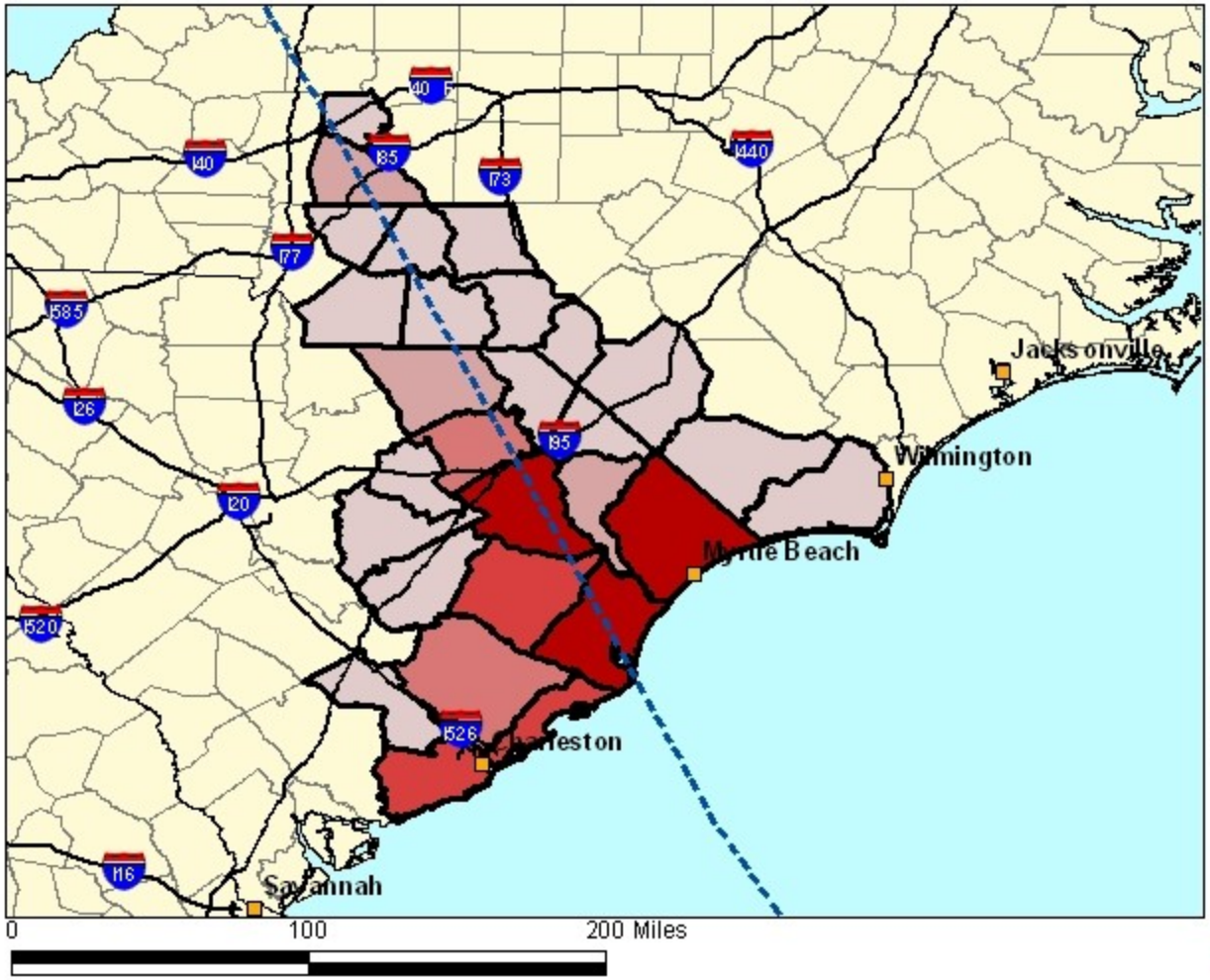
Hurricane Exercise Projected Damage Areas	
Generated By: Siemsen, LRL 1600 EDT 05/11/2007	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 13

US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Expected In About **24** Hours

For Official Use Only!



Post Landfall Debris Model Results

South Carolina - 12,162,000 Yards
North Carolina - 416,000 Yards

Model results per county on following page

This model is based on a Category 4 storm making landfall Georgetown, SC.

Forecast Track
Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 4 storm making landfall Georgetown, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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Hurricane Exercise Debris Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Expected In About **24** Hours

For Official Use Only!

State	Yards per State	County	Yards per County
North Carolina		Anson	74,000
		Brunswick	37,000
		Cabarrus	27,000
		Columbus	23,000
		Davie	2,000
		Montgomery	< 1,000
		Richmond	29,000
		Robeson	16,000
		Rowan	113,000
		Scotland	9,000
		Stanly	56,000
		Union	30,000
North Carolina	416,000		
South Carolina		Berkeley	276,000
		Charleston	737,000
		Chesterfield	151,000
		Clarendon	30,000
		Darlington	350,000
		Dillon	53,000
		Dorchester	16,000
		Florence	1,776,000
		Georgetown	3,451,000
		Horry	4,159,000
		Lee	12,000
		Marion	216,000
		Marlboro	88,000
		Sumter	8,000
		Williamsburg	839,000
South Carolina	12,162,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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or contact ENGLink at 1-877-936-4546

Hurricane Exercise Debris Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

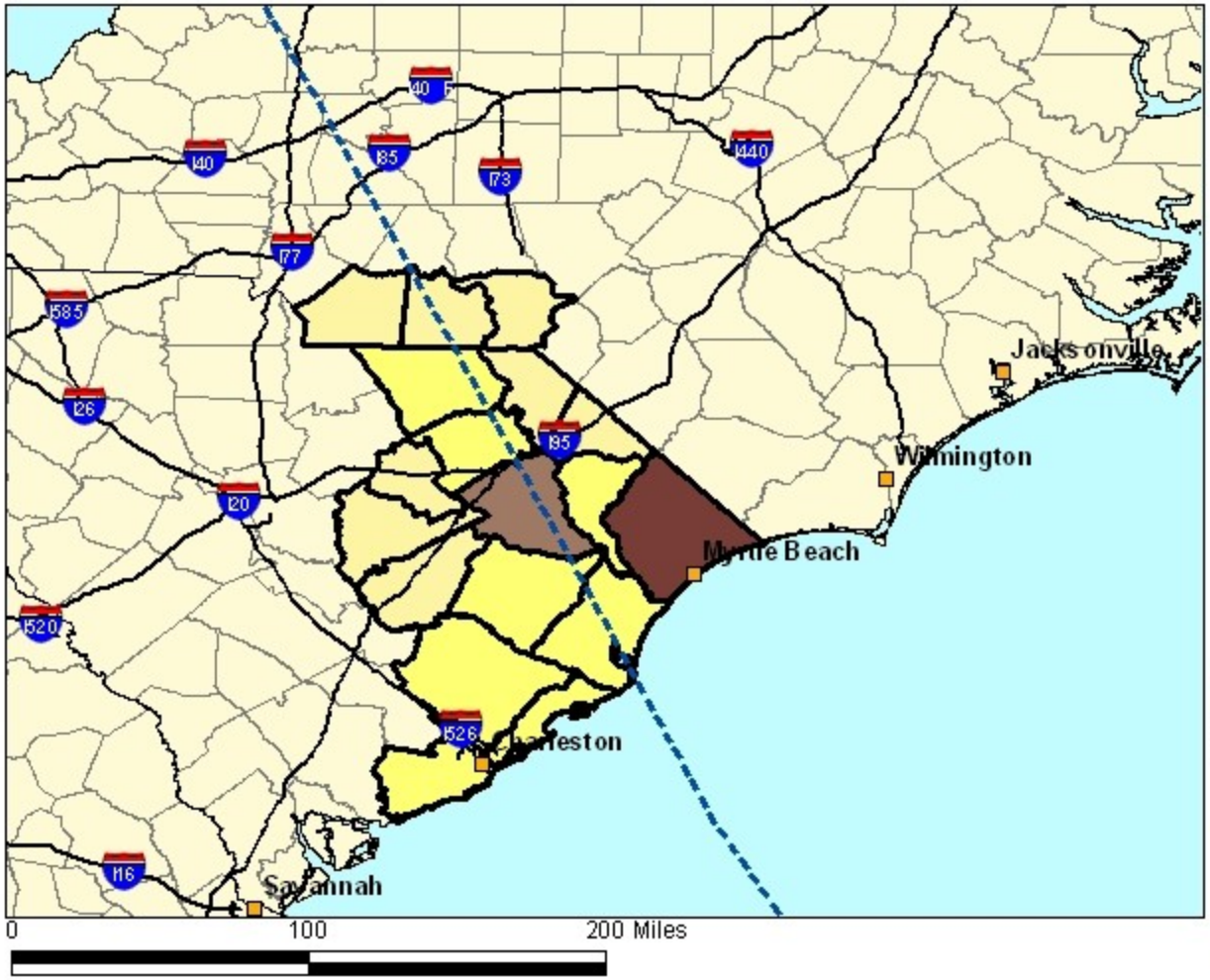
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Population Model

Landfall Expected In About **24** Hours

For Official Use Only!



Post Landfall Population Model Results

South Carolina - 694,000
North Carolina - 17,000

Model results per county on following page

This model is based on a Category 4 storm making landfall Georgetown, SC.

Forecast Track
Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 4 storm making landfall Georgetown, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model	
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Sources: HURREVAC LRL-DEBRIS	Page 4 of 13

US Army Corps of Engineers

Hurricane Exercise Population Model

Landfall Expected In About **24** Hours

For Official Use Only!

State	Population per State	County	Population per County
North Carolina		Anson	17,000
		Richmond	< 1,000
		Union	< 1,000
North Carolina	17,000		
South Carolina		Berkeley	28,000
		Charleston	81,000
		Chesterfield	27,000
		Clarendon	5,000
		Darlington	61,000
		Dillon	10,000
		Florence	132,000
		Georgetown	61,000
		Horry	201,000
		Lee	< 1,000
		Marion	34,000
		Marlboro	17,000
		Sumter	2,000
		Williamsburg	35,000
South Carolina	694,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

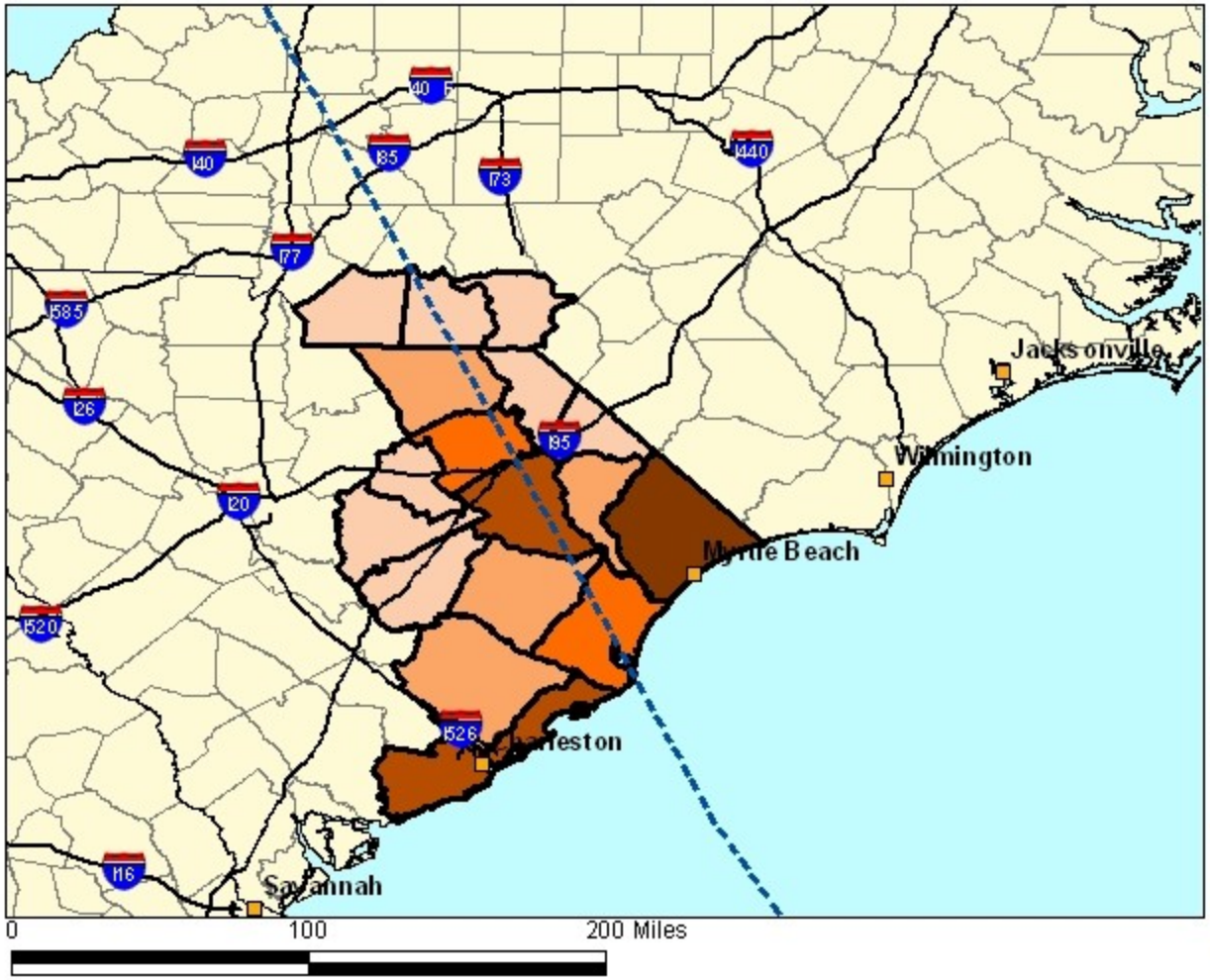
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Households Model

Landfall Expected In About **24** Hours

For Official Use Only!



Post Landfall Households Model Results

South Carolina - 274,000
North Carolina - 6,000

Model results per county on following page

This model is based on a Category 4 storm making landfall Georgetown, SC.

Forecast Track
Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 4 storm making landfall Georgetown, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model	
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Sources: HURREVAC LRL-DEBRIS	Page 6 of 13

US Army Corps of Engineers

Hurricane Exercise Households Model

Landfall Expected In About **24** Hours

For Official Use Only!

State	Households per State	County	Households per County
North Carolina		Anson	6,000
		Richmond	< 1,000
		Union	< 1,000
North Carolina	6,000		
South Carolina		Berkeley	10,000
		Charleston	32,000
		Chesterfield	11,000
		Clarendon	2,000
		Darlington	24,000
		Dillon	4,000
		Florence	50,000
		Georgetown	24,000
		Horry	84,000
		Lee	< 1,000
		Marion	13,000
		Marlboro	7,000
		Sumter	< 1,000
		Williamsburg	13,000
South Carolina	274,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

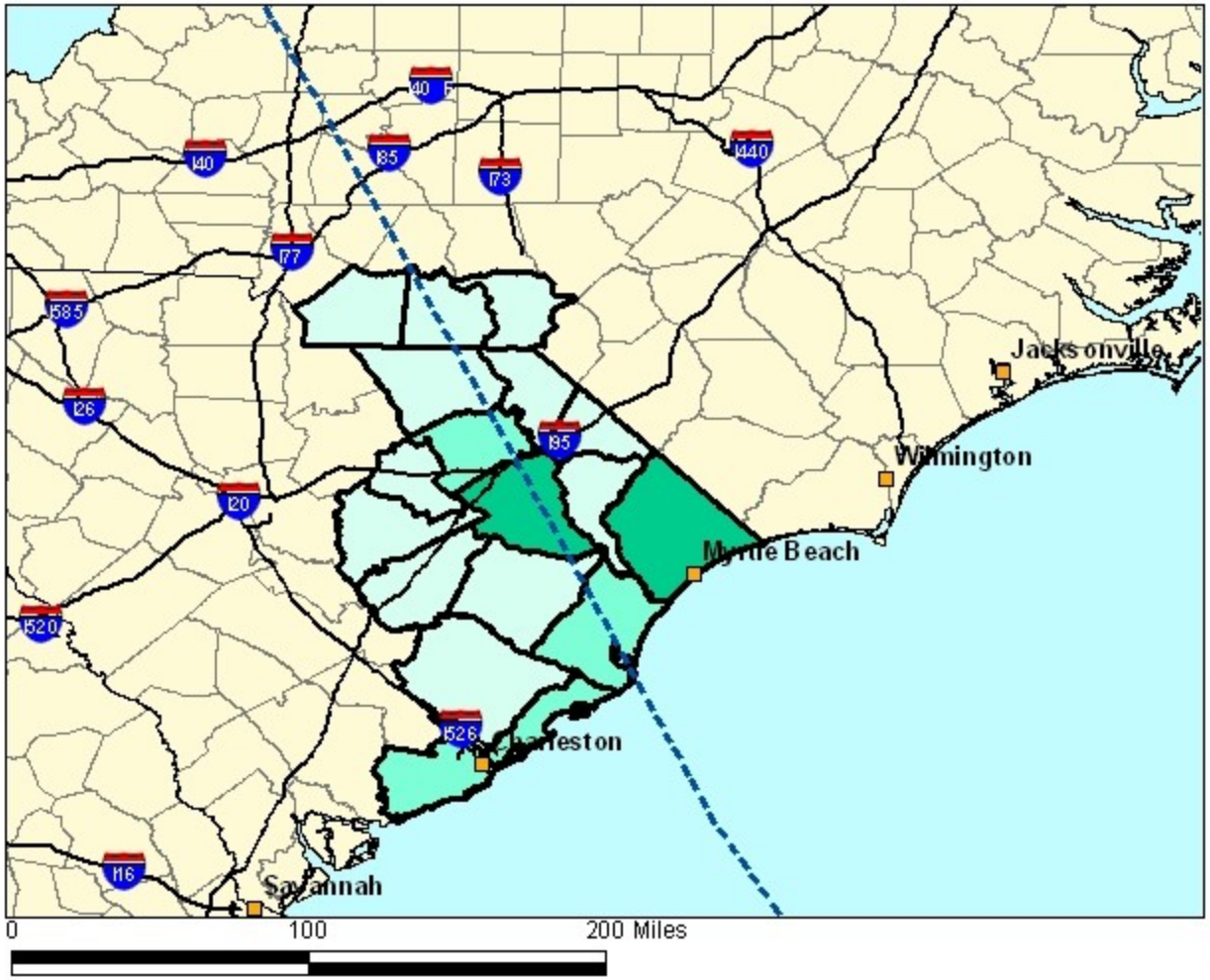
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Expected In About **24** Hours

For Official Use Only!



Post Landfall Ice/Water Model Results

Day One / Day Two / Day Three
SC - 16/32/63 Truckloads
NC - 1/2/4 Truckloads

Model results per county on following page

This model is based on a Category 4 storm making landfall Georgetown, SC.

Forecast Track
Historic Track

Commodities
- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 4 storm making landfall Georgetown, SC. These projections are based on information from the NHC ***(1530 EDT 05/11/2007)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input. The graphic represents single day needs with full distribution system in place and operating.
Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model	
Generated By: Siemsen, LRL 1600 EDT 05/11/2007	
Sources: HURREVAC LRL-DEBRIS	Page 8 of 13

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Expected In About **24** Hours

For Official Use Only!

State	Truckloads per State	County	Truckloads per County
North Carolina		Anson	2
		Richmond	1
		Union	1
North Carolina	4		
South Carolina		Berkeley	3
		Charleston	7
		Chesterfield	3
		Clarendon	1
		Darlington	5
		Dillon	1
		Florence	11
		Georgetown	5
		Horry	17
		Lee	1
		Marion	3
		Marlboro	2
		Sumter	1
		Williamsburg	3
South Carolina	63		

The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system. The assumption in this scenario is that 40% of the resident population affected by the hurricane will have power outage in this area and cause a need for ice and water.

Details about this model may be obtained at **https://englink.usace.army.mil**
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Exercise Temporary Housing Model

US Army Corps of Engineers

Landfall Expected In About **24** Hours

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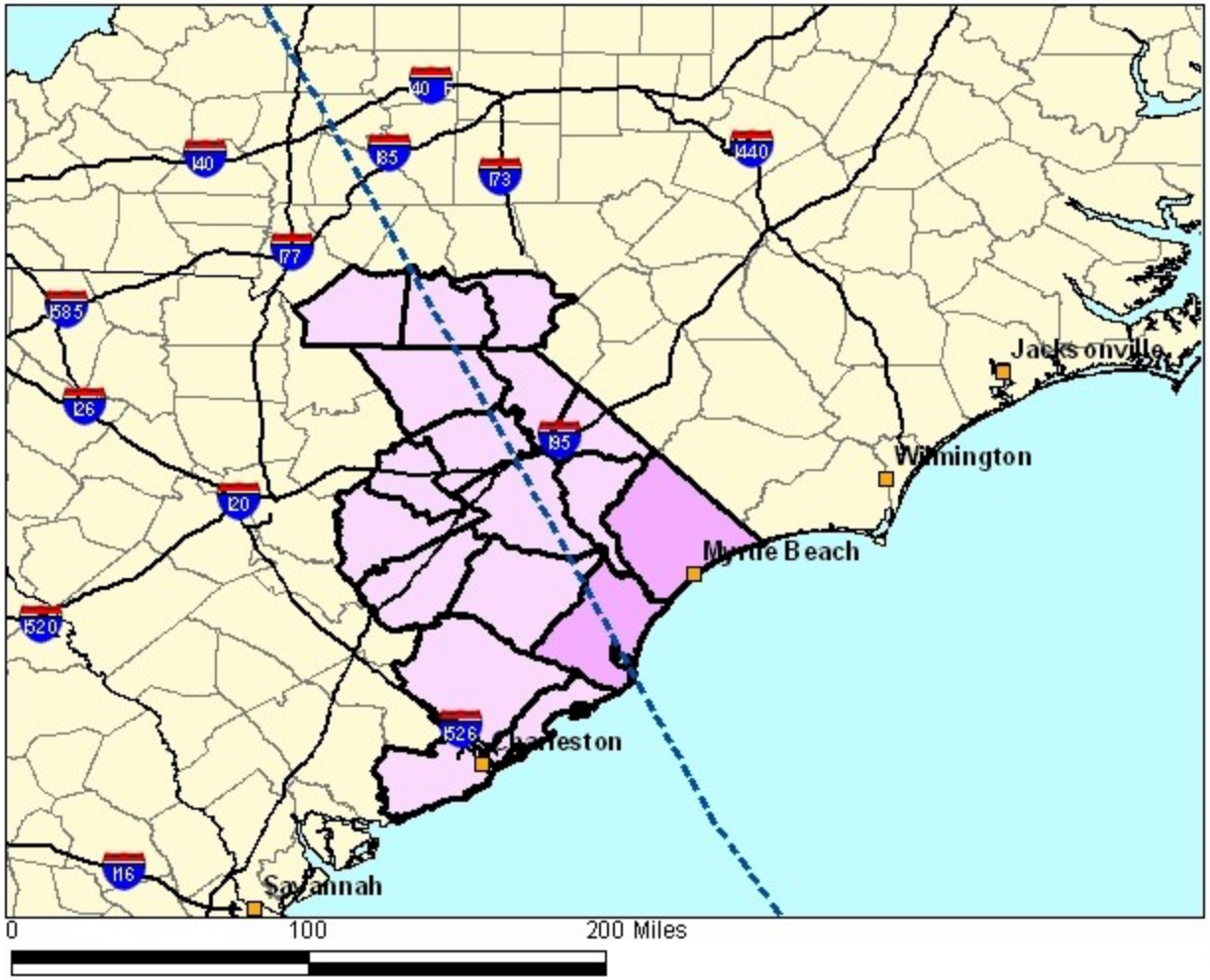

Post Landfall Temporary Housing Model Results

South Carolina - 9,100

Model results per county on following page

This model is based on a Category 4 storm making landfall Georgetown, SC.

Forecast Track
Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall Georgetown, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast. Temporary housing is based on 1% in CAT 1, 3% in CAT 2, 5% in CAT 3 and 9% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model	
Generated By: Siemsen, LRL 1600 EDT 05/11/2007	
Sources: HURREVAC LRL-DEBRIS	Page 10 of 13

US Army Corps of Engineers

Hurricane Exercise Temporary Housing Model

Landfall Expected In About **24** Hours

For Official Use Only!

State	per State	County	per County
North Carolina		Anson	< 100
		Richmond	< 100
		Union	< 100
North Carolina			
South Carolina		Berkeley	200
		Charleston	400
		Chesterfield	200
		Clarendon	< 100
		Darlington	500
		Dillon	< 100
		Florence	1,800
		Georgetown	2,100
		Horry	3,100
		Lee	< 100
		Marion	300
		Marlboro	< 100
		Sumter	< 100
		Williamsburg	500
South Carolina	9,100		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary housing is based on 1% in CAT 1, 3% in CAT 2, 5% in CAT 3 and 9% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Temporary Roofing Model

Landfall Expected In About **24** Hours

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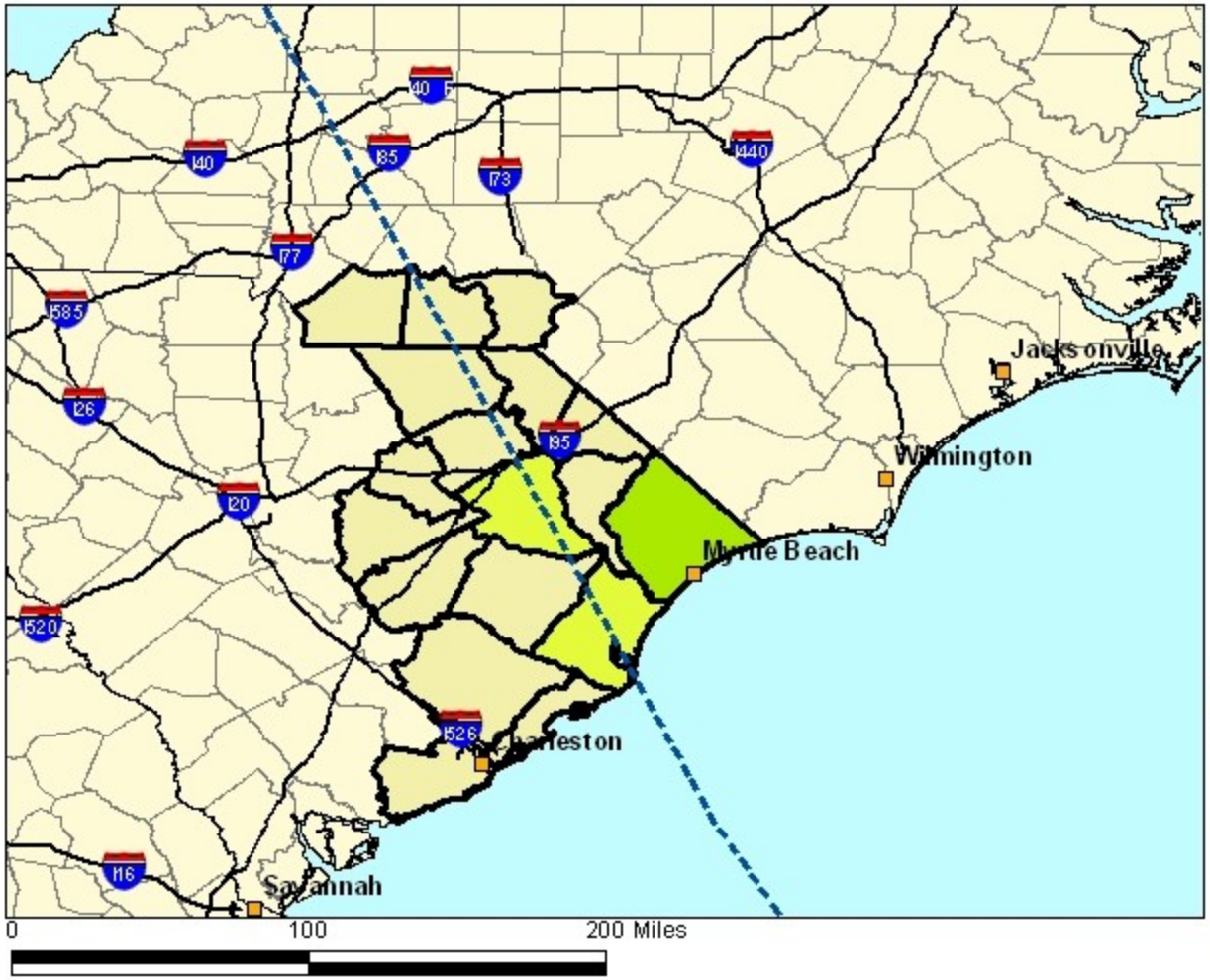

Post Landfall Temporary Roofing Model Results

South Carolina - 15,300
North Carolina - 200

Model results per county on following page

This model is based on a Category 4 storm making landfall Georgetown, SC.

Forecast Track
Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall Georgetown, SC. These projections are based on information from the NHC (1530 EDT 05/11/2007) forecast. Temporary roofing is based on 2% in CAT 1, 5% in CAT 2, 9% in CAT 3 and 14% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Roofing Model

Generated By:
Siemsen, LRL 1600 EDT 05/11/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Temporary Roofing Model

Landfall Expected In About 24 Hours

For Official Use Only!

State	House Units per State	County	House Units per County
North Carolina		Anson	200
		Richmond	< 100
		Union	< 100
North Carolina	200		
South Carolina		Berkeley	300
		Charleston	800
		Chesterfield	300
		Clarendon	< 100
		Darlington	800
		Dillon	< 100
		Florence	3,000
		Georgetown	3,300
		Horry	5,400
		Lee	< 100
		Marion	400
		Marlboro	200
		Sumter	< 100
		Williamsburg	800
South Carolina	15,300		

THIS IS AN EXPERIMENTAL MODEL!!

Temporary roofing is based on 2% in CAT 1, 5% in CAT 2, 9% in CAT 3 and 14% in CAT 4.

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or contact ENGLink at 1-877-936-4546

Hurricane Exercise Roofing Model

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LRL-DEBRIS